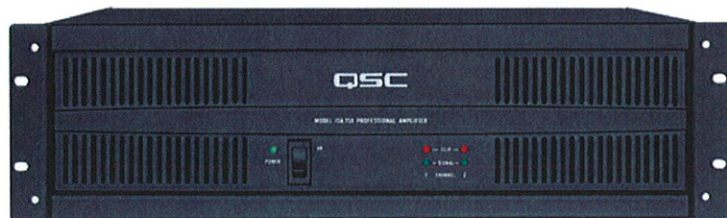




Passionate About Sound

Products / Amplifiers

## ISA Series



Designed as a cost-effective solution specifically for sound contractors, the ISA Series features seven models including four low impedance models (ISA 280, ISA 450, ISA 750, ISA 1350) rated for 2-ohm operation, and three "Ti" versions with isolated 25, 70 and 100 volt outputs for distributed audio systems (ISA 300Ti, ISA 500Ti, ISA 800Ti). Versatile loading options and a comprehensive feature set make the ISA Series a rugged, cost-effective power solution for any permanently installed sound system.

Unique among distributed sound power amplifiers, the "Ti" versions will drive 8 or 4 ohm loads and a distributed system on the same channel simultaneously. This enables a contractor to reduce the number of required amplifier channels by allowing a limited number of distributed speakers to be attached to the same amp as is powering the main sound system.

Housed in a rugged 3-U chassis, all seven models feature rear panel gain controls for tamper resistant operation with 2 dB detents for quick and repeatable settings. Inputs include both XLR and detachable Euro-style connectors. Outputs feature covered barrier strip connectors for safety agency compliance, and for added versatility, a DataPort V2 (Version 2) terminated with an HD-15 connector is provided for use with DPV2-compatible signal processing accessories such as the XC-3 Crossover, SF-3 Subwoofer Filter, LF-3 Low Frequency Filter and the DSP-3 with external power supply.

Selectable high-pass filters are included to protect speakers and prevent speaker transformer saturation with minimal effect on program material. The ISA Series provide additional protection circuitry including DC, infrasonic, thermal overload, RF and short circuit protection.

On the ISA 750 and ISA 800Ti, class H complementary bipolar output circuitry increases system efficiency by reducing AC power draw and waste heat by 40%. Cooling is accomplished via an automatic variable speed fan, which pulls air from back to front.

The DataPort connector on this amplifier is not compatible with Q-Sys, BASIS or CM16a (Explain)

### FEATURES

- \* Four models for low-impedance applications
- \* ISA 1350 drives 70V lines directly with 1500 watts / channel
- \* Three "Ti" versions include low-impedance and isolated 25, 70, and 100 volt outputs for distributed audio systems
- \* Rear panel gain controls for tamper resistant operation with 2 dB detents for quick and repeatable settings
- \* XLR and detachable Euro style input connectors
- \* DataPort V2 for use with DPV2-compatible signal processing accessories (XC-3, SF-3, LF-3) and DSP-3/DSP-4 (with external power supply)
- \* Independent defeatable clip limiters for reduced distortion
- \* Selectable high-pass filters protect speakers and prevent speaker transformer saturation with minimal effect on program material (30 Hz or 70 Hz on non-"Ti" models, 50 Hz or 75 Hz on "Ti" models)
- \* Class H complementary bipolar output circuitry reduces AC power draw and waste heat by 40% on ISA 750 and 800Ti, and by 50% on ISA 1350
- \* Front panel indicators include power, signal, and clip (and protect on ISA 1350)
- \* Covered barrier strip output connectors for safety agency compliance
- \* Automatic variable-speed fan for quiet normal operation with maximum cooling on demand
- \* Rear-to-front air flow keeps equipment racks cool
- \* Stereo, Bridge, or Parallel operating modes
- \* Comprehensive protection circuitry including DC, infrasonic, thermal overload and short circuit protection
- \* 3-year warranty plus optional 3-year extended service contract

### "Ti" Models

- \* 25, 70, 100 volt, and low-impedance outputs available simultaneously
- \* Simple barrier strip connection determines output mode

\* "Ti" models have fully isolated 25, 70, and 100 volt outputs

SPECIFICATIONS	ISA280	ISA450	ISA750	ISA1350	ISA300Ti	ISA500Ti	ISA800Ti
STEREO MODE, Both Channels Driven							
8 ohms 20 Hz-20 kHz 0.1% THD	185W	260W	450W	800W	185W	260W	450W
4 ohms 20 Hz-20 kHz 0.1% THD	280W	425W	650W	1300W	280W	425W	650W
2 ohms 1 kHz 1% THD	430W	700W	1200W	2000W	430W	700W	1200W
DIRECT POWER, STEREO MODE							
70V 20 Hz-20 kHz +0/-0.3 dB 0.5% THD	-	-	-	1500W	-	-	-
XF OUTPUT POWER, STEREO MODE							
70V or 100V 50 Hz-16 kHz 0.5% THD	-	-	-	-	300W	500W	800W
25V 50 Hz-16 kHz 0.5% THD	-	-	-	-	200W	300W	500W
BRIDGED MONO MODE							
8 ohms 1 kHz 0.1% THD	600W	900W	1500W	2800W	600W	900W	1500W
4 ohms 1 kHz 1% THD	830W	1400W	2400W	4000W	830W	1400W	2400W
XF OUTPUT POWER, BRIDGED MONO MODE							
140V or 200V 50 Hz-16 kHz 0.5% THD	-	-	-	-	600W	1000W	1600W
Signal to Noise (20 Hz-20 kHz)	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB
Distortion (SMPTE-IM)	Less than 0.01%	Less than 0.01%	Less than 0.02%	Less than 0.01%	Less than 0.01%	Less than 0.01%	Less than 0.02%
Input Sensitivity @ 8 ohms	1.15v (+3.4 dBu)	1.07v (+2.8 dBu)	1.07v (+2.8 dBu)	1.24v (+4.1 dBu)	1.15v (+3.4 dBu)	1.07v (+2.8 dBu)	1.07v (+2.8 dBu)
Voltage Gain @ 8 ohms	33.4x (30.5 dB)	44.7x (33 dB)	56.2x (35 dB)	64.0x (36.1 dB)	33.4x (30.5 dB)	44.7x (33 dB)	56.2x (35 dB)
Output Circuitry	Class AB	Class AB	Class H	Class H, 3 Tier	Class AB	Class AB	Class H
THX Approved	-	<del>THX</del>	<del>THX</del>	-	-	-	-
Weight - Net	36 lbs (16.3 kg)	42 lbs (19 kg)	47 lbs (21.3 kg)	68 lbs (30.8 kg)	44 lbs (20.0 kg)	49 lbs (22.3 kg)	57 lbs (26 kg)
Weight - Shipping	42 lbs (19.1 kg)	48 lbs (22 kg)	53 lbs (24.0 kg)	77 lbs (34.4 kg)	50 lbs (22.7 kg)	55 lbs (25 kg)	63 lbs (28.6 kg)
ALL MODELS							
Distortion (Typical)							
20 Hz-20 kHz: 10 dB below rated power	Less than 0.03% THD, 4 ohms and 8 ohms						
1.0 kHz and below: full rated power	Less than 0.03% THD, 4 ohms and 8 ohms						
Frequency Response	ISA 280, 450, 750 and 1350: 20 Hz-20 kHz, +0/-1 dB; -3 dB points: 5 Hz and 50 kHz				ISA 300Ti, 500Ti and 800Ti: Direct outputs: -3 dB @ 50 Hz, -0.5 dB @ 20 kHz; XF outputs: 50 Hz-16 kHz, +1/-3 dB		
10 dB below rated output power							
Damping Factor (direct outputs)	Greater than 200 at 8 ohms, ISA 1350 greater than 250						
Output Regulation (isolated outputs)	Less than 1.5 dB						
Input Impedance	10 k ohms unbalanced, 20 k ohms balanced						
Input Clipping	10 Vrms (+22 dBu)						
Cooling	Continuously variable speed fan, back-to-front air flow						
Connectors, each channel	Input: Active balanced; 3-pin Euro-style detachable terminal block and XLR (pin 2+) Output: Covered barrier strips DataPort V2: HD-15 connector						
Controls	Front: AC switch Rear: Ch. 1 and Ch. 2 gain knobs, 10-position DIP switch						
Indicators	PWR-ON: Green LED; SIGNAL: Green LED (1 per channel); CLIP: Red LED (1 per channel)						
Dimensions	19" (48.3 cm) rack mounting, 5.25"(13.3cm) tall (3 rack spaces), 15.9" (40 cm) deep (from front mounting rails)						
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic, and RF protection; Stable into reactive or mismatched loads						
Power Requirements	120, 230, VAC, 50-60 Hz						
Load Protection	On/off muting; Triac crowbar: ISA 750, 1350 and 800Ti; AC coupling: ISA 280, 300Ti, 450 and 500Ti						

All Specification Subject to Change Without Notice.